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OIPE

RAW SEQUENCE LISTING

DATE: 12/17/2001

PATENT APPLICATION: US/10/010,066

TIME: 11:09:14

Input Set : A:\Sequence Listing.txt

Output Set: N:\CRF3\12172001\J010066.raw

PS

4 <110> APPLICANT: University of Iowa Research Foundation
5 Schwartz, David A.
6 Schutte, Brian C.
8 <120> TITLE OF INVENTION: Variant TLR4 nucleic acid and uses thereof
10 <130> FILE REFERENCE: 875.010W01
C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/010,066
C--> 12 <141> CURRENT FILING DATE: 2001-12-07
12 <150> PRIOR APPLICATION NUMBER: US 09/329,515
13 <151> PRIOR FILING DATE: 1999-06-10
15 <160> NUMBER OF SEQ ID NOS: 72
17 <170> SOFTWARE: FastSEQ for Windows Version 4.0
19 <210> SEQ ID NO: 1
20 <211> LENGTH: 28
21 <212> TYPE: DNA
22 <213> ORGANISM: Homo sapiens
24 <400> SEQUENCE: 1
25 gcgtggagggt atgtggctgg agtcagct 28
27 <210> SEQ ID NO: 2
28 <211> LENGTH: 28
29 <212> TYPE: DNA
30 <213> ORGANISM: Homo sapiens
32 <400> SEQUENCE: 2
33 tcacggagggt tagaatgctg agcacgta 28
35 <210> SEQ ID NO: 3
36 <211> LENGTH: 28
37 <212> TYPE: DNA
38 <213> ORGANISM: Homo sapiens
40 <400> SEQUENCE: 3
41 ttatccagggt aatgaatcca cttttaca 28
42 <210> SEQ ID NO: 4
43 <211> LENGTH: 21
44 <212> TYPE: PRT
45 <213> ORGANISM: Homo sapiens
47 <400> SEQUENCE: 4
48 Leu Ala Tyr Leu Asp Tyr Tyr Leu Asp Asp Ile Ile Asp Leu Phe Asn
49 1 5 10 15
50 Cys Leu Thr Asn Val
51 20
53 <210> SEQ ID NO: 5
54 <211> LENGTH: 20
55 <212> TYPE: PRT
56 <213> ORGANISM: Mus musculus
58 <400> SEQUENCE: 5
59 Leu Thr Tyr Thr Asn Asp Phe Ser Asp Asp Ile Val Lys Phe His Cys
60 1 5 10 15
61 Leu Ala Asn Val
62 20

ENTERED

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64 <210> SEQ ID NO: 6
65 <211> LENGTH: 20
66 <212> TYPE: PRT
67 <213> ORGANISM: Rattus norvegicus
69 <400> SEQUENCE: 6
70   Leu Thr Tyr Ile Asn His Phe Ser Asp Asp Ile Tyr Asn Leu Asn Cys
71     1           5           10           15
72   Leu Ala Asn Ile
73           20
75 <210> SEQ ID NO: 7
76 <211> LENGTH: 20
77 <212> TYPE: PRT
78 <213> ORGANISM: Cricetulus griseus
80 <400> SEQUENCE: 7
81   Phe Thr Tyr Ala Asn Glu Phe Ser Glu Asp Ile Thr Asp Phe Asp Cys
82     1           5           10           15
83   Leu Ala Asn Val
84           20
86 <210> SEQ ID NO: 8
87 <211> LENGTH: 20
88 <212> TYPE: DNA
89 <213> ORGANISM: Homo sapiens
91 <400> SEQUENCE: 8
92   atggggcata tcagagccta
93                                     20
94 <210> SEQ ID NO: 9
95 <211> LENGTH: 20
96 <212> TYPE: DNA
97 <213> ORGANISM: Homo sapiens
99 <400> SEQUENCE: 9
100  gtccaatggg gaagttctct
101                                     20
102 <210> SEQ ID NO: 10
103 <211> LENGTH: 20
104 <212> TYPE: DNA
105 <213> ORGANISM: Homo sapiens
107 <400> SEQUENCE: 10
108  tcattgtcct gcagaaggtg
109                                     20
110 <210> SEQ ID NO: 11
111 <211> LENGTH: 20
112 <212> TYPE: DNA
113 <213> ORGANISM: Homo sapiens
115 <400> SEQUENCE: 11
116  cagggtttt ctgagtcgtc
117                                     20
118 <210> SEQ ID NO: 12
119 <211> LENGTH: 20
120 <212> TYPE: DNA
121 <213> ORGANISM: Homo sapiens
123 <400> SEQUENCE: 12
124  ctgctcggtc aaacggtgat
125                                     20
126 <210> SEQ ID NO: 13

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127 <211> LENGTH: 20
128 <212> TYPE: DNA
129 <213> ORGANISM: Homo sapiens
131 <400> SEQUENCE: 13
132   cagcaagcac gatattggat                                20
134 <210> SEQ ID NO: 14
135 <211> LENGTH: 20
136 <212> TYPE: DNA
137 <213> ORGANISM: Homo sapiens
139 <400> SEQUENCE: 14
140   gagttgggag accatgcagt                                20
142 <210> SEQ ID NO: 15
143 <211> LENGTH: 20
144 <212> TYPE: DNA
145 <213> ORGANISM: Homo sapiens
147 <400> SEQUENCE: 15
148   ggttcttatt cagcagaaat                                20
150 <210> SEQ ID NO: 16
151 <211> LENGTH: 20
152 <212> TYPE: DNA
153 <213> ORGANISM: Homo sapiens
155 <400> SEQUENCE: 16
156   ggtggctgtg gagacaaatc                                20
158 <210> SEQ ID NO: 17
159 <211> LENGTH: 20
160 <212> TYPE: DNA
161 <213> ORGANISM: Homo sapiens
163 <400> SEQUENCE: 17
164   acttggacct ttccagcaac                                20
166 <210> SEQ ID NO: 18
167 <211> LENGTH: 19
168 <212> TYPE: DNA
169 <213> ORGANISM: Homo sapiens
171 <400> SEQUENCE: 18
172   ctttatccaa ccaggtgca                                19
174 <210> SEQ ID NO: 19
175 <211> LENGTH: 23
176 <212> TYPE: DNA
177 <213> ORGANISM: Homo sapiens
179 <400> SEQUENCE: 19
180   tgggagaatt tagaaatgaa gga                                23
182 <210> SEQ ID NO: 20
183 <211> LENGTH: 21
184 <212> TYPE: DNA
185 <213> ORGANISM: Homo sapiens
187 <400> SEQUENCE: 20
188   tttcttcatt ttccctggtg a                                21
190 <210> SEQ ID NO: 21
191 <211> LENGTH: 20

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```

192 <212> TYPE: DNA
193 <213> ORGANISM: Homo sapiens
195 <400> SEQUENCE: 21
196   tggacagttt cccacattga                                20
198 <210> SEQ ID NO: 22
199 <211> LENGTH: 22
200 <212> TYPE: DNA
201 <213> ORGANISM: Homo sapiens
203 <400> SEQUENCE: 22
204   ttcaaagggtt gctgtttctca aa                            22
206 <210> SEQ ID NO: 23
207 <211> LENGTH: 23
208 <212> TYPE: DNA
209 <213> ORGANISM: Homo sapiens
211 <400> SEQUENCE: 23
212   tcaaacttct tgggcttaga aca                            23
214 <210> SEQ ID NO: 24
215 <211> LENGTH: 20
216 <212> TYPE: DNA
217 <213> ORGANISM: Homo sapiens
219 <400> SEQUENCE: 24
220   cagagttgct ttcaatggca                                20
222 <210> SEQ ID NO: 25
223 <211> LENGTH: 20
224 <212> TYPE: DNA
225 <213> ORGANISM: Homo sapiens
227 <400> SEQUENCE: 25
228   tccaggaaaa cttccttcca                                20
230 <210> SEQ ID NO: 26
231 <211> LENGTH: 18
232 <212> TYPE: DNA
233 <213> ORGANISM: Homo sapiens
235 <400> SEQUENCE: 26
236   ttcattggat acgtttcc                                  18
238 <210> SEQ ID NO: 27
239 <211> LENGTH: 20
240 <212> TYPE: DNA
241 <213> ORGANISM: Homo sapiens
243 <400> SEQUENCE: 27
244   accagagttt cctgcaatgg                                20
246 <210> SEQ ID NO: 28
247 <211> LENGTH: 20
248 <212> TYPE: DNA
249 <213> ORGANISM: Homo sapiens
251 <400> SEQUENCE: 28
252   tgcctgtgct gagtttgaat                                20
254 <210> SEQ ID NO: 29
255 <211> LENGTH: 20
256 <212> TYPE: DNA

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Input Set : A:\Sequence Listing.txt

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```

257 <213> ORGANISM: Homo sapiens
259 <400> SEQUENCE: 29
260   cggtcctcag tgtgcttgta                20
262 <210> SEQ ID NO: 30
263 <211> LENGTH: 20
264 <212> TYPE: DNA
265 <213> ORGANISM: Homo sapiens
267 <400> SEQUENCE: 30
268   ccaggatgag gactgggtaa                20
270 <210> SEQ ID NO: 31
271 <211> LENGTH: 20
272 <212> TYPE: DNA
273 <213> ORGANISM: Homo sapiens
275 <400> SEQUENCE: 31
276   aagccgaaag gtgattgttg                20
278 <210> SEQ ID NO: 32
279 <211> LENGTH: 23
280 <212> TYPE: DNA
281 <213> ORGANISM: Homo sapiens
283 <400> SEQUENCE: 32
284   tatcatcttc attgtcctgc aga            23
286 <210> SEQ ID NO: 33
287 <211> LENGTH: 20
288 <212> TYPE: DNA
289 <213> ORGANISM: Homo sapiens
291 <400> SEQUENCE: 33
292   tcattgtcct gcagaaggtg                20
294 <210> SEQ ID NO: 34
295 <211> LENGTH: 20
296 <212> TYPE: DNA
297 <213> ORGANISM: Homo sapiens
299 <400> SEQUENCE: 34
300   gacgactcag aaaagccctg                20
302 <210> SEQ ID NO: 35
303 <211> LENGTH: 20
304 <212> TYPE: DNA
305 <213> ORGANISM: Homo sapiens
307 <400> SEQUENCE: 35
308   aattggcagg aagcaacatc                20
310 <210> SEQ ID NO: 36
311 <211> LENGTH: 21
312 <212> TYPE: DNA
313 <213> ORGANISM: Homo sapiens
315 <400> SEQUENCE: 36
316   agtcagctcc tctgaacttt c             21
318 <210> SEQ ID NO: 37
319 <211> LENGTH: 20
320 <212> TYPE: DNA
321 <213> ORGANISM: Homo sapiens

```

→ Use of n and/or Xaa has been detected in the Sequence Listing.
 Review the Sequence Listing to insure a corresponding
 explanation is presented in the <220> to <223> fields of
 each sequence using n or Xaa.

VERIFICATION SUMMARY

DATE: 12/17/2001

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Input Set : A:\Sequence Listing.txt

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L:12 M:270 C: Current Application Number differs, Replaced Current Application No
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:547 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62
L:548 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62
L:549 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62
L:567 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62
L:590 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62
L:598 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62
L:599 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62
L:600 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62
L:601 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62
L:602 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62
L:604 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62
L:605 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62
L:606 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62
L:607 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62
L:614 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62
L:620 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62
L:785 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:70
L:787 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:70
L:788 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:70
L:848 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72
L:849 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72
L:850 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72
L:851 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72
L:859 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72
L:865 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72
L:871 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72
L:942 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72